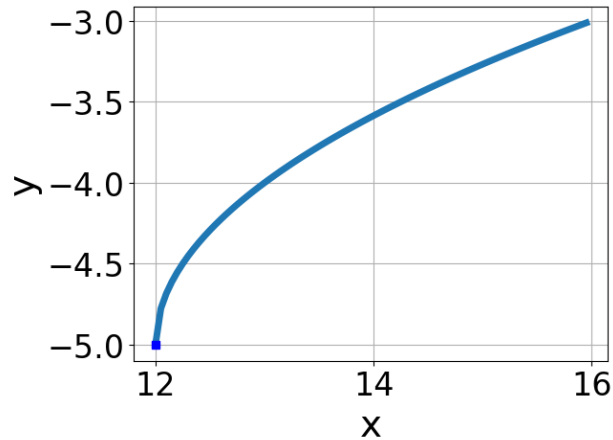


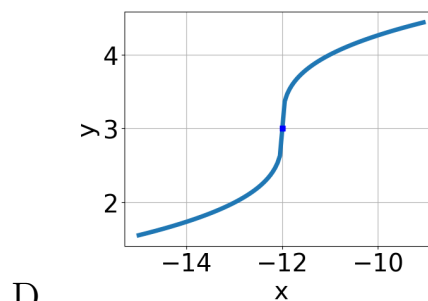
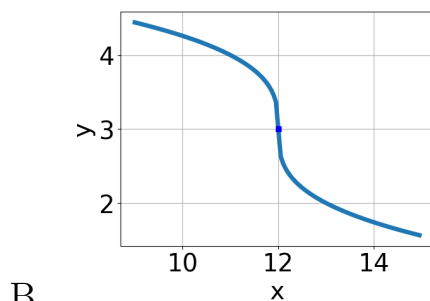
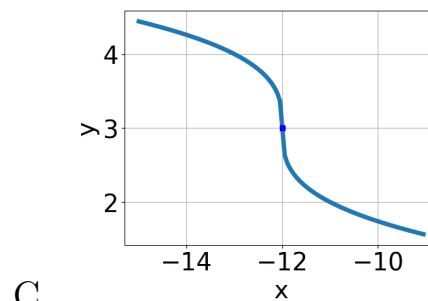
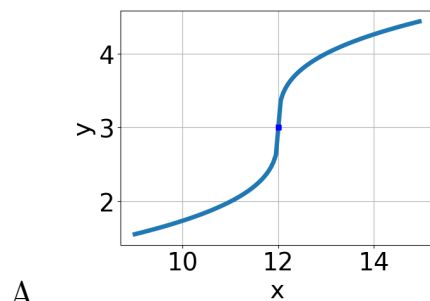
1. Choose the equation of the function graphed below.



- A. $f(x) = -\sqrt[3]{x-12} - 5$
- B. $f(x) = \sqrt[3]{x-12} - 5$
- C. $f(x) = -\sqrt[3]{x+12} - 5$
- D. $f(x) = \sqrt[3]{x+12} - 5$
- E. None of the above

2. Choose the graph of the equation below.

$$f(x) = -\sqrt[3]{x+12} + 3$$



E. None of the above.

3. What is the domain of the function below?

$$f(x) = \sqrt[4]{-4x - 5}$$

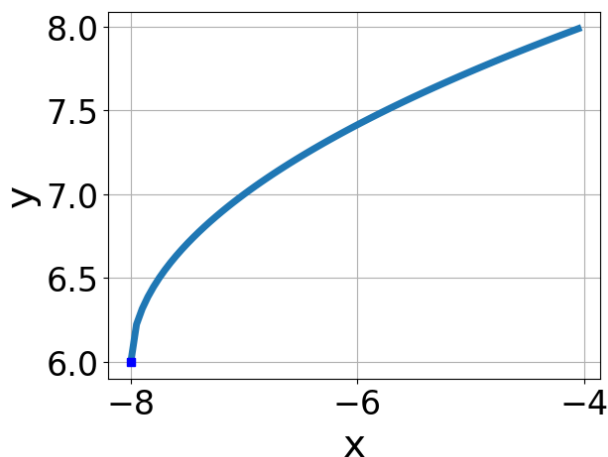
- A. $[a, \infty)$, where $a \in [-2.36, -0.83]$
 - B. $(-\infty, \infty)$
 - C. $(-\infty, a]$, where $a \in [-0.93, -0.64]$
 - D. $(-\infty, a]$, where $a \in [-1.43, -0.91]$
 - E. $[a, \infty)$, where $a \in [-1.11, 1.51]$
-

4. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{12x^2 - 14} - \sqrt{38x} = 0$$

- A. $x_1 \in [-0.29, 0.48]$ and $x_2 \in [3.5, 5.5]$
 - B. $x \in [-0.57, 0.19]$
 - C. $x \in [2.68, 4.7]$
 - D. All solutions lead to invalid or complex values in the equation.
 - E. $x_1 \in [-0.57, 0.19]$ and $x_2 \in [3.5, 5.5]$
-

5. Choose the equation of the function graphed below.



- A. $f(x) = -\sqrt{x+8} + 6$
- B. $f(x) = -\sqrt{x-8} + 6$
- C. $f(x) = \sqrt{x-8} + 6$
- D. $f(x) = \sqrt{x+8} + 6$
- E. None of the above

6. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{5x-4} - \sqrt{-7x+9} = 0$$

- A. $x_1 \in [0.78, 0.91]$ and $x_2 \in [1.25, 1.29]$
- B. $x_1 \in [0.78, 0.91]$ and $x_2 \in [0.84, 1.12]$
- C. $x \in [-0.61, -0.31]$
- D. $x \in [0.97, 1.1]$
- E. All solutions lead to invalid or complex values in the equation.

7. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{-35x^2 + 36} - \sqrt{-43x} = 0$$

- A. All solutions lead to invalid or complex values in the equation.
- B. $x_1 \in [0, 1.05]$ and $x_2 \in [-0.2, 2.8]$
- C. $x_1 \in [-1.1, -0.09]$ and $x_2 \in [-0.2, 2.8]$
- D. $x \in [-1.1, -0.09]$
- E. $x \in [1.33, 2.34]$

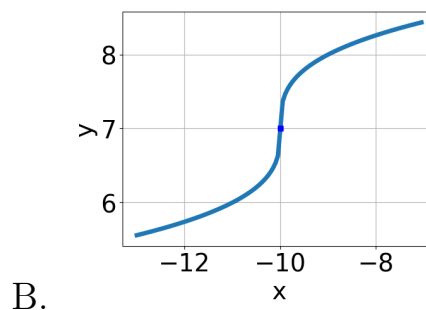
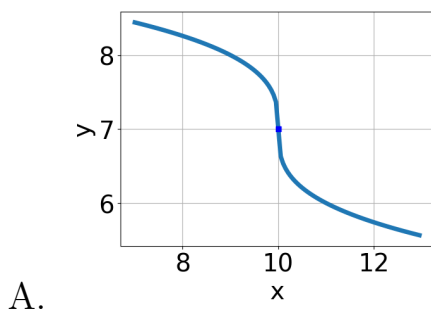
8. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

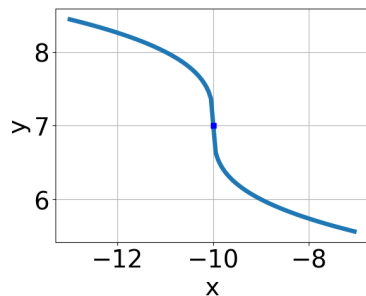
$$\sqrt{-4x - 9} - \sqrt{-5x + 7} = 0$$

- A. $x \in [15, 17]$
- B. $x_1 \in [-7.25, 0.75]$ and $x_2 \in [15, 17]$
- C. All solutions lead to invalid or complex values in the equation.
- D. $x \in [1, 4]$
- E. $x_1 \in [-7.25, 0.75]$ and $x_2 \in [0.4, 6.4]$

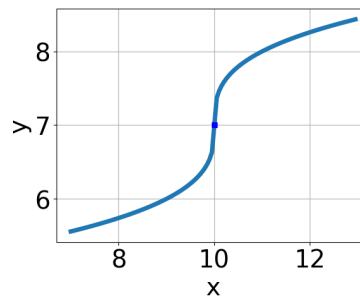
9. Choose the graph of the equation below.

$$f(x) = -\sqrt[3]{x + 10} + 7$$





C.



D.

E. None of the above.

10. What is the domain of the function below?

$$f(x) = \sqrt[4]{-6x - 5}$$

- A. $[a, \infty)$, where $a \in [-0.85, -0.18]$
- B. $(-\infty, \infty)$
- C. $(-\infty, a]$, where $a \in [-1.94, -0.87]$
- D. $[a, \infty)$, where $a \in [-1.76, -1.11]$
- E. $(-\infty, a]$, where $a \in [-0.98, -0.42]$